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(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/NMK/W.No.37/2020-21

Date: 17.07.2020

TEST REPORT

CLIENT	:	**Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
AGENCY	:	**Sri. N M Krishnamurthy,** Contractor, Bangalore.
NAME OF THE WORK	:	Comprehesive development of Roads, drains and Footpath in Yeshwanthpura ward No.37 under PACKAGE-2019-20 RRN-DIV-(11), BBMP, Bangalore.
SAMPLE ID	:	Cement (OPC 53 Grade Dalmia Cement)
DATE OF MANUFACTURE	:	June - 2020
DATE OF TESTING	:	15.07.2020 to 17.07.2020
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	440 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Asst. Executive Engineer
Yeshwanthpura Sub-Division
Bruhat Bangalore Mahanagara Palike

Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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Job No.: CQCE/BBMP/NMK/W.No.37/2020-21

Date : 17.07.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of Work : Comprehesive development of Roads, drains and Footpath in Yeshwanthpura ward No.37 under PACKAGE-2019-20 RRN-DIV-(11), BBMP, Bangalore.
Date of Testing : 17.07.2020
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	98	9.80	9.80	90.2	90-100
2.36	110	11.00	20.80	79.2	75-100
1.18	165	16.50	37.30	62.7	55-90
600 Micron	268	26.80	64.10	35.9	35-59
300 Micron	158	15.80	79.90	20.1	8-30
150 Micron	150	15.00	94.90	5.1	0-10

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Date : 17.07.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of Work : Comprehesive development of Roads, drains and Footpath in Yeshwanthpura ward No.37 under PACKAGE-2019-20 RRN-DIV-(11), BBMP, Bangalore.
Date of Testing : 17.07.2020
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	238	1.59	1.59	98.41	95-100
20	8480	56.53	58.12	41.88	30-70
10	3326	22.17	80.29	19.71	10-35
4.75	2480	16.53	96.83	3.17	0-5

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Date : 17.07.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of Work : Comprehesive development of Roads, drains and Footpath in Yeshwanthpura ward No.37 under PACKAGE-2019-20 RRN-DIV-(11), BBMP, Bangalore.
Date of Testing : 17.07.2020
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	192	3.8	3.8	96.2	95-100
10	2840	56.8	60.6	39.4	25-55
4.75	1760	35.2	95.8	4.2	0-10

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Job No.: CQCE/BBMP/NMK/W.No.37/2020-21

Date: 17.07.2020

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of Work : Comprehesive development of Roads, drains and Footpath in Yeshwanthpura ward No.37 under PACKAGE-2019-20 RRN-DIV-(11), BBMP, Bangalore.

Sample Identification : 8mm,10mm Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test : 17.07.2020

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation, percent on gauge length
1	Fe 500	8	0.398	519	598	12.5
2	Fe 500	10	0.620	529	606	13

Remarks:

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Job No.: CQCE/BBMP/NMK/W.No.37/2020-21

KERB STONE (CORE) TEST REPORT

Date: 17.07.2020

Client	:	**Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency	:	**Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of Work	:	Comprehesive development of Roads, drains and Footpath in Yeshwanthpura ward No.37 under PACKAGE-2019-20 RRN-DIV-(11), BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	17.07.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	75.00	0.349	2369.92	1.50	0.960	25.30	12.89	13.92	13.36	16.70
2	50.00	79.00	0.372	2398.20	1.58	0.960	26.50	13.50	14.58	13.99	17.49
3	50.00	73.00	0.336	2344.16	1.46	0.960	24.80	12.63	13.64	13.10	16.37

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Job No.: CQCE/BBMP/NMK/W.No.37/2020-21

Date: 17.07.2020

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	**Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Contractor	:	**Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of Work	:	Comprehesive development of Roads, drains and Footpath in Yeshwanthpura ward No.37 under PACKAGE-2019-20 RRN-DIV-(11), BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	17.07.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	100.00	178.00	3.289	2352.63	1.78	0.960	132.80	16.91	18.26	17.53	21.91
2	100.00	182.00	3.412	2386.97	1.82	0.960	134.60	17.14	18.51	17.77	22.21
3	100.00	180.00	3.362	2378.13	1.80	0.960	133.20	16.96	18.32	17.58	21.98

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Date 17.07.2020

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of the Work : Comprehesive development of Roads, drains and Footpath in Yeshwanthpura ward No.37 under PACKAGE-2019-20 RRN-DIV-(11), BBMP, Bangalore.

Date of Testing 17.07.2020
Size of Blocks : 400mm x 150mm x 200mm
Cross Sectional Area : 60000 mm^2
Technical Reference : IS: 2185 (Part 1) - 2005
No. of Blocks Tested : 04

SLNo.	Block ID	Wt. in Kg	Failure load (N)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	24.9	218.9	3.65	2075.00	Minimum required Compressive Strength of Individual Units 3.50 N/mm^2
2	Block 2	23.2	220.6	3.68	1933.33	
3	Block 3	24.1	234.2	3.90	2008.33	
4	Block 4	25.3	229.4	3.82	2108.33	

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Job No.: CQCE/BBMP/NMK/W.No.37/2020-21

Date: 28.07.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency : **Sri. N M Krishnamurthy,** Contractor, Bangalore.
Name of the work : Comprehesive development of Roads, drains and Footpath in Yeshwanthpura ward No.37 under PACKAGE-2019-20 RRN-DIV-(11), BBMP, Bangalore.

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.07.2020	28.07.2020	8.122	263.2	11.70
2	21.07.2020	28.07.2020	8.134	271.5	12.07
3	21.07.2020	28.07.2020	8.150	280.9	12.48

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Job No.: CQCE/BBMP/NMK/W.No.37/2020-21

Date: 28.07.2020

TEST REPORT ON CONCRETE CUBES

Client : Executive Engineer, RR Nagar Division, BBMP, Bangalore.
Agency : Sri. N M Krishnamurthy, Contractor, Bangalore.
Name of the work : Comprehesive development of Roads, drains and Footpath in Yeshwanthpura ward No.37 under PACKAGE-2019-20 RRN-DIV-(11), BBMP, Bangalore.

Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.07.2020	28.07.2020	8.125	261.3	11.61
2	21.07.2020	28.07.2020	8.139	272.1	12.09
3	21.07.2020	28.07.2020	8.149	280.5	12.47

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